

SIMPLWINDOWS NAME: Sharp LCD Projector Full Controls

CATEGORY: Monitor

VERSION: 1.0

SUMMARY: Controls power/source selection/mode/volume as well as more advanced features

GENERAL NOTES: This module will control all the basic functions of a Sharp LCD projector as well as some of the more advanced features. It was tested on both an XG-V10WU and an XG-P20XU.

Some of the functions are not available for all of the projectors. If the function is not available with projector you are controlling, but you send the projector the command anyway, the projector will just ignore the command.

The PIP commands will function when an RGB source is being displayed full screen. Whatever video source was last selected before the RGB source, will display in the PIP. You must turn off PIP before selecting any other video or RGB source.

CRESTRON HARDWARE REQUIRED: CNXCOM-2, ST-COM

SETUP OF CRESTRON HARDWARE: Baud Rate - 9600
Parity - None
Data Bits - 8
Stop Bits - 1

VENDOR FIRMWARE: None

VENDOR SETUP: None

CABLE NUMBER: CNSP-532

CONTROL:

POWER-ON/OFF	D	Pulse to turn the screen on or off.
AUTO-POWER-OFF-*	D	Pulse to enable/disable the auto-power off feature.
PICTURE-MUTE-*	D	Pulse to turn the picture mute on/off.
INPUT-*	D	Pulse to select on of the sources.
PICTURE-*	D	Pulse to select one of the two available modes.
OSD-ON/OFF (LEVEL-A/B)	D	Pulse to activate/deactivate the on screen menu.
VOLUME-UP/DOWN	D	Press and hold to ramp the volume up or down.
VOLUME-MUTE-ON/OFF/TOGGLE	D	Pulse to mute/unmute the audio.
ZOOM-IN/OUT-SLOW	D	Press and hold to zoom in or out slowly.
ZOOM-IN/OUT-FAST	D	Press and hold to zoom in or out quickly.
FOCUS-IN/OUT-SLOW	D	Press and hold to focus in or out slowly.
FOCUS-IN/OUT-FAST	D	Press and hold to focus in or out quickly.
PICTURE-MUTE-OSD-*	D	Pulse to turn the osd for picture mute on and off. NOTE: This osd will not appear unless the main osd is on.
BRIGHTNESS-*	D	Press and hold to adjust the brightness.

CONTRAST-*	D	Press and hold to adjust the contrast.
COLOR-*	D	Press and hold to adjust the color.
TINT-*	D	Press and hold to adjust the tint.
SHARPNESS-*	D	Press and hold to adjust the sharpness.
PIP-*	D	Pulse to turn the PIP off or on in the desired position.
LAMP-MODE-*	D	Pulse to set the projector to the desired lamp mode. The modes are equal use/both/lamp 1 only/lamp 2 only. NOTE: THIS COMMAND IS NOT AVAILABLE WITH ALL PROJECTORS.
GET-LAMP- *-STATUS	D	Pulse to get the status of the desired lamp. It will tell you if the lamp is on or off. NOTE: LAMP 2 STATUS IS NOT AVAILABLE WITH ALL PROJECTORS.
GET-LAMP-QUANTITY	D	Pulse to get the number lamps installed in the projector.
GET-LAMP- *-HOURS	D	Pulse to get the number of hours desired lamp has been on. NOTE: LAMP 2 HOURS NOT AVAILABLE WITH ALL PROJECTORS.
SHARP-RX\$	S	Serial signal to be routed from a 2-way RS232 port.

FEEDBACK:

VOLUME-BAR	A	Indicates the last volume level sent from the Crestron system to the screen. Should be routed to a bargraph on a touchpanel.
BRIGHTNESS-BAR	A	Indicates the last BRIGHTNESS level sent from the Crestron system to the screen. This will be different for each source. Should be routed to a bargraph on a touch panel.
CONTRAST-BAR	A	Indicates the last CONTRAST level sent from the Crestron system to the screen. This will be different for each source. Should be routed to a bargraph on a touch panel.
COLOR-BAR	A	Indicates the last COLOR level sent from the Crestron system to the screen. This will be different for each source. Should be routed to a bargraph on a touch panel.
TINT-BAR	A	Indicates the last TINT level sent from the Crestron system to the screen. This will be different for each source. Should be routed to a bargraph on a touch panel.
SHARPNESS-BAR	A	Indicates the last SHARPNESS level sent from the Crestron system to the screen. This will be different for each source. Should be routed to a bargraph on a touch panel.
LAMP- *-STATUS-TEXT\$	S	A serial string with the status of the lamp. NOTE: LAMP 2 STATUS IS NOT AVAILABLE WITH ALL PROJECTORS.
LAMP-QUANTITY-TEXT\$	S	A serial string with the number of lamps installed in the projector.
LAMP- *-USAGE-TIME-TEXT\$	S	A serial string with the number of hours the lamp has been on. NOTE: LAMP 2 STATUS IS NOT AVAILABLE WITH ALL PROJECTORS.
SHARP-TX\$	S	Serial signal to be routed to a 2 way RS232 port.

COMPILER USED FOR TESTING: SimplWindows Version 1.52.01
SAMPLE PROGRAM: Sharp LCD Projector Demo Program
REVISION HISTORY: None